

PF-0489-1 CON

<110> Tang, Y. Tom  
Bandman, Olga  
Lal, Preeti  
Hillman, Jennifer L.  
Yue, Henry  
Corley, Neil C.  
Guegler, Karl J.  
Kaser, Matthew R.  
Baughn, Mariah R.  
Shah, Purvi

<120> HUMAN MEMBRANE-SPANNING PROTEINS

<130> PF-0489-1 CON

<140> To Be Assigned

<141> Herewith

<150> 09/039,307

<151> 1998 March 13

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Ala	Pro	Ala	Pro	Thr	Pro	Pro	Ala	Pro	Pro	Pro	Ser	Arg	Ser	Ser
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Arg	Leu	Gly	Leu	Trp	Pro	Arg	Cys	Phe	Leu	Ile	Phe	Pro	Gln	Leu
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Arg	Ile	Leu	Leu	Leu	Gly	Pro	Gln	Glu	Ser	Asn	Asn	Ser	Thr	Gly
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Thr	Met	Trp	Lys	Val	Ser	Ala	Leu	Leu	Phe	Val	Leu	Gly	Ser	Ala
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Ser	Leu	Trp	Val	Leu	Ala	Glu	Gly	Ala	Ser	Thr	Gly	Gln	Pro	Glu
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Asp	Asp	Thr	Glu	Thr	Thr	Gly	Leu	Glu	Gly	Gly	Val	Ala	Met	Pro
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Gly	Ala	Glu	Asp	Asp	Val	Val	Thr	Pro	Gly	Thr	Ser	Glu	Asp	Arg
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Tyr	Lys	Ser	Gly	Leu	Thr	Thr	Leu	Val	Ala	Thr	Ser	Val	Asn	Ser
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Val	Thr	Gly	Ile	Arg	Ile	Glu	Asp	Leu	Pro	Thr	Ser	Glu	Ser	Thr
				155					160					165
Val	His	Ala	Gln	Glu	Gln	Ser	Pro	Ser	Ala	Thr	Ala	Ser	Asn	Val
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Ala	Thr	Ser	His	Ser	Thr	Glu	Lys	Val	Asp	Gly	Asp	Thr	Gln	Thr
				185					190					195
Thr	Val	Glu	Lys	Asp	Gly	Leu	Ser	Thr	Val	Thr	Leu	Val	Gly	Ile

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Ile	Val	Gly	Val	Leu	Leu	Ala	Ile	Gly	Phe	Ile	Gly	Gly	Ile	Ile
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Val	Val	Val	Met	Arg	Lys	Met	Ser	Gly	Arg	Tyr	Ser	Pro		
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Cys	Ala	Leu	Ile	Leu	Cys	Lys	Lys	Glu	Pro	Gly	Ala	Lys	Ile	Ser
				35					40					45
Arg	Gly	Ala	Lys	Gly	Lys	Lys	Glu	Glu	Lys	Gln	Glu	Ala	Gly	Lys
				50					55					60
Glu	Gly	Thr	Ala	Pro	Ser	Glu	Asn	Gly	Glu	Thr	Lys	Ala	Glu	Glu
				65					70					75
Val	Leu	Ser	Ile	Asn	Thr	Ser	His							
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Ala	Ala	Gly	Gly	Gly	Ser	Ser	Gly	Gln	Val	Thr	Ser	Asn	Gly	Ser
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Ile	Gly	Arg	Asp	Pro	Pro	Ala	Glu	Thr	Gln	Pro	Gln	Asn	Pro	Pro
				35					40					45
Ala	Gln	Pro	Ala	Pro	Asn	Ala	Trp	Gln	Val	Ile	Lys	Gly	Val	Leu
				50					55					60
Phe	Arg	Ile	Phe	Ile	Ile	Trp	Ala	Ile	Ser	Ser	Trp	Phe	Arg	Arg
				65					70					75
Gly	Pro	Ala	Pro	Gln	Asp	Gln	Ala	Gly	Pro	Gly	Gly	Ala	Pro	Arg
				80					85					90
Val	Ala	Ser	Arg	Asn	Leu	Phe	Pro	Lys	Asp	Thr	Leu	Met	Asn	Leu
				95					100					105
His	Val	Tyr	Ile	Ser	Glu	His	Glu	His	Phe	Thr	Asp	Phe	Asn	Ala
				110					115					120
Thr	Ser	Ala	Leu	Phe	Trp	Glu	Gln	His	Asp	Leu	Val	Tyr	Gly	Asp
				125					130					135
Trp	Thr	Ser	Gly	Glu	Asn	Ser	Asp	Gly	Cys	Tyr	Glu	His	Phe	Ala
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Glu	Leu	Asp	Ile	Pro	Gln	Ser	Val	Gln	Gln	Asn	Gly	Ser	Ile	Tyr
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Ile	His	Val	Tyr	Phe	Thr	Lys	Ser	Gly	Phe	His	Pro	Asp	Pro	Arg	
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Gln	Lys	Ala	Leu	Tyr	Arg	Arg	Leu	Ala	Thr	Val	His	Met	Ser	Arg	
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Met	Ile	Asn	Lys	Tyr	Lys	Arg	Arg	Arg	Phe	Gln	Lys	Thr	Lys	Asn	
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Leu	Leu	Thr	Gly	Glu	Thr	Glu	Ala	Asp	Pro	Glu	Met	Ile	Lys	Arg	
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Ala	Glu	Asp	Tyr	Gly	Pro	Val	Glu	Val	Ile	Ser	His	Trp	His	Pro	
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Asn	Ile	Thr	Ile	Asn	Ile	Val	Asp	Asp	His	Thr	Pro	Trp	Val	Lys	
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Gly	Ser	Val	Pro	Pro	Pro	Leu	Asp	Gln	Tyr	Val	Lys	Phe	Asp	Ala	
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Val	Ser	Gly	Asp	Tyr	Tyr	Pro	Ile	Ile	Tyr	Phe	Asn	Asp	Tyr	Trp	
				275					280					285	
Asn	Leu	Gln	Lys	Asp	Tyr	Tyr	Pro	Ile	Asn	Glu	Ser	Leu	Ala	Ser	
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Leu	Pro	Leu	Arg	Val	Ser	Phe	Cys	Pro	Leu	Ser	Leu	Trp	Arg	Trp	
				305					310					315	
Gln	Leu	Tyr	Ala	Ala	Gln	Ser	Thr	Lys	Ser	Pro	Trp	Asn	Phe	Leu	
				320					325					330	
Gly	Asp	Glu	Leu	Tyr	Glu	Gln	Ser	Asp	Glu	Glu	Gln	Asp	Ser	Val	
				335					340					345	
Lys	Val	Ala	Leu	Leu	Glu	Thr	Asn	Pro	Tyr	Leu	Leu	Ala	Leu	Thr	
				350					355					360	
Ile	Ile	Val	Ser	Ile	Val	His	Ser	Val	Phe	Glu	Phe	Leu	Ala	Phe	
				365					370					375	
Lys	Asn	Asp	Ile	Gln	Phe	Trp	Asn	Ser	Arg	Gln	Ser	Leu	Glu	Gly	
				380					385					390	
Leu	Ser	Val	Arg	Ser	Val	Phe	Phe	Gly	Val	Phe	Gln	Ser	Phe	Val	
				395					400					405	
Val	Leu	Leu	Tyr	Ile	Leu	Asp	Asn	Glu	Thr	Asn	Phe	Val	Val	Gln	
				410					415					420	
Val	Ser	Val	Phe	Ile	Gly	Val	Leu	Ile	Asp	Leu	Trp	Lys	Ile	Thr	
				425					430					435	
Lys	Val	Met	Asp	Val	Arg	Leu	Asp	Arg	Glu	His	Arg	Val	Ala	Gly	
				440					445					450	
Ile	Phe	Pro	Arg	Leu	Ser	Phe	Lys	Asp	Lys	Ser	Thr	Tyr	Ile	Glu	
				455					460					465	
Ser	Ser	Thr	Lys	Val	Tyr	Asp	Asp	Met	Ala	Phe	Arg	Tyr	Leu	Ser	
				470					475					480	
Trp	Ile	Leu	Phe	Pro	Ser	Trp	Ala	Ala	Met	Pro	Ser	Thr	Val	Phe	
				485					490					495	
Cys	Thr	Trp	Ser	Thr	Arg	Ala	Gly	Thr	Pro	Gly	Cys	Ser	Ala	Cys	
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Ser	Thr	Ala	Ser	Cys											
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Asp Ser Leu Ala	Leu Leu Cys Gln Trp	Ile Gln Ser Lys Leu	Gln		
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Glu Tyr Met Phe	Asn Arg Pro Tyr Ser	Arg Lys Leu Glu Ala	Glu		
	140		145		150
Ala Asp Lys Ile	Gly Leu Leu Leu Ala	Ala Lys Ala Cys Ala	Asp		
	155		160		165
Ile Arg Ala Ser	Ser Val Phe Trp Gln	Gln Met Glu Phe Val	Asp		
	170		175		180
Ser Leu His Gly	Gln Pro Lys Met Pro	Glu Trp Leu Ser Thr	His		
	185		190		195
Pro Ser His Gly	Asn Arg Val Glu Tyr	Leu Asp Arg Leu Ile	Pro		
	200		205		210
Gln Ala Leu Lys	Ile Arg Glu Met Cys	Asn Cys Pro Pro Leu	Ser		
	215		220		225
Asn Pro Asp Pro	Arg Leu Leu Phe Lys	Leu Ser Thr Lys His	Phe		
	230		235		240
Leu Glu Glu Ser	Glu Lys Glu Asp Leu	Asn Ile Thr Lys Lys	Gln		
	245		250		255
Lys Met Asp Thr	Leu Pro Ile Gln Lys	Gln Glu Gln Ile Pro	Leu		
	260		265		270
Thr Tyr Ile Val	Glu Lys Arg Thr Gly	Ser			
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	20	25		30
Gly Tyr Glu Gly Ile	Val Val Ala Ile Asp	Pro Asn Val Pro Glu		
	35	40		45
Asp Glu Thr Leu Ile	Gln Gln Ile Lys Asp	Met Val Thr Gln Ala		
	50	55		60
Ser Leu Tyr Leu Phe	Glu Ala Thr Gly Lys	Arg Phe Tyr Phe Lys		
	65	70		75
Asn Val Ala Ile Leu	Ile Pro Glu Thr Trp	Lys Thr Lys Ala Asp		
	80	85		90
Tyr Val Arg Pro Lys	Leu Glu Thr Tyr Lys	Asn Ala Asp Val Leu		
	95	100		105
Val Ala Glu Ser Thr	Pro Pro Gly Asn Asp	Glu Pro Tyr Thr Glu		
	110	115		120
Gln Met Gly Asn Cys	Gly Glu Lys Gly Glu	Arg Ile His Leu Thr		
	125	130		135
Pro Asp Phe Ile Ala	Gly Lys Lys Leu Ala	Glu Tyr Gly Pro Gln		
	140	145		150
Gly Arg Ala Phe Val	His Glu Trp Ala His	Leu Arg Trp Gly Val		
	155	160		165
Phe Asp Glu Tyr Asn	Asn Asp Glu Lys Phe	Tyr Leu Ser Asn Gly		
	170	175		180
Arg Ile Gln Ala Val	Arg Cys Ser Ala Gly	Ile Thr Gly Thr Asn		
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Val Val Lys Lys Cys	Gln Gly Gly Ser Cys	Tyr Thr Lys Arg Cys		





**092346**

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PF-0489-1 CON

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Asn Lys His Phe	Thr Gln Ser Pro Lys	Lys Ser Val Ala Asp	Leu		
	605		610		615
Leu Gly Ser Phe	Glu Gly Lys Arg Arg	Leu Leu Leu Ile Thr	Ala		
	620		625		630
Pro Lys Ala Glu	Asn Asn Met Tyr Val	Gln Gln Arg Asp Glu	Tyr		
	635		640		645
Leu Glu Ser Phe	Cys Lys Met Ala Thr	Arg Lys Ile Ser Val	Ile		
	650		655		660
Thr Ile Phe Gly	Pro Val Asn Asn Ser	Thr Met Lys Ile Asp	His		
	665		670		675
Phe Gln Leu Asp	Asn Glu Lys Pro Met	Arg Val Val Asp Asp	Glu		
	680		685		690
Asp Leu Val Asp	Gln Arg Leu Ile Ser	Glu Leu Arg Lys Glu	Tyr		
	695		700		705
Gly Met Thr Tyr	Asn Asp Phe Phe Met	Val Leu Thr Asp Val	Asp		
	710		715		720
Leu Arg Val Lys	Gln Tyr Tyr Glu Val	Pro Ile Thr Met Lys	Ser		
	725		730		735
Val Phe Asp Leu	Ile Asp Thr Phe Gln	Ser Arg Ile Lys Asp	Met		
	740		745		750
Glu Lys Gln Lys	Lys Glu Gly Ile Val	Cys Lys Glu Asp Lys	Lys		
	755		760		765
Gln Ser Leu Glu	Asn Phe Leu Ser Arg	Phe Arg Trp Arg Arg	Arg		
	770		775		780
Leu Leu Val Ile	Ser Ala Pro Asn Asp	Glu Asp Trp Ala Tyr	Ser		
	785		790		795
Gln Gln Leu Ser	Ala Leu Ser Gly Gln	Ala Cys Asn Phe Gly	Leu		
	800		805		810
Arg His Ile Thr	Ile Leu Lys Leu Leu	Gly Val Gly Glu Glu	Val		
	815		820		825
Gly Gly Val Leu	Glu Leu Phe Pro Ile	Asn Gly Ser Ser Val	Val		
	830		835		840
Glu Arg Glu Asp	Val Pro Ala His Leu	Val Lys Asp Ile Arg	Asn		
	845		850		855
Tyr Phe Gln Val	Ser Pro Glu Tyr Phe	Ser Met Leu Leu Val	Gly		
	860		865		870
Lys Asp Gly Asn	Val Lys Ser Trp Tyr	Pro Ser Pro Met Trp	Ser		
	875		880		885
Met Val Ile Val	Tyr Asp Leu Ile Asp	Ser Met Gln Leu Arg	Arg		
	890		895		900
Gln Glu Met Ala	Ile Gln Gln Ser Leu	Gly Met Arg Cys Pro	Glu		
	905		910		915
Asp Glu Tyr Ala	Gly Tyr Gly Tyr His	Ser Tyr His Gln Gly	Tyr		
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Gln Asp Gly Tyr	Gln Asp Asp Tyr Arg	His His Glu Ser Tyr	His		
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His Gly Tyr Pro	Tyr				
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Gly	Pro	Gly	Gly	Trp	Cys	Leu	Ala	Glu	Pro	Pro	Arg	Asp	Ser	Leu
				20					25					30
Arg	Glu	Glu	Leu	Val	Ile	Thr	Pro	Leu	Pro	Ser	Gly	Asp	Val	Ala
				35					40					45
Ala	Thr	Phe	Gln	Phe	Arg	Thr	Arg	Trp	Asp	Ser	Glu	Leu	Gln	Arg
				50					55					60
Glu	Gly	Val	Ser	His	Tyr	Arg	Leu	Phe	Pro	Lys	Ala	Leu	Gly	Gln
				65					70					75
Leu	Ile	Ser	Lys	Tyr	Ser	Leu	Arg	Glu	Leu	His	Leu	Ser	Phe	Thr
				80					85					90
Gln	Gly	Phe	Trp	Arg	Thr	Arg	Tyr	Trp	Gly	Pro	Pro	Phe	Leu	Gln
				95					100					105
Ala	Pro	Ser	Gly	Ala	Glu	Leu	Trp	Val	Trp	Phe	Gln	Asp	Thr	Val
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Thr	Asp	Val	Asp	Lys	Ser	Trp	Lys	Glu	Leu	Ser	Asn	Val	Leu	Ser
				125					130					135
Gly	Ile	Phe	Cys	Ala	Ser	Leu	Asn	Phe	Ile	Asp	Ser	Thr	Asn	Thr
				140					145					150
Val	Thr	Pro	Thr	Ala	Ser	Phe	Lys	Pro	Leu	Gly	Leu	Ala	Asn	Asp
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Thr	Asp	His	Tyr	Phe	Leu	Arg	Tyr	Ala	Val	Leu	Pro	Arg	Glu	Val
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Val	Cys	Thr	Glu	Asn	Leu	Thr	Pro	Trp	Lys	Lys	Leu	Leu	Pro	Cys
				185					190					195
Ser	Ser	Lys	Ala	Gly	Leu	Ser	Val	Leu	Leu	Lys	Ala	Asp	Arg	Leu
				200					205					210
Phe	His	Thr	Ser	Tyr	His	Ser	Gln	Ala	Val	His	Ile	Arg	Pro	Val
				215					220					225
Cys	Arg	Asn	Ala	Arg	Cys	Thr	Ser	Ile	Ser	Trp	Glu	Leu	Arg	Gln
				230					235					240
Thr	Leu	Ser	Val	Val	Phe	Asp	Ala	Phe	Ile	Thr	Gly	Gln	Gly	Lys
				245					250					255
Lys	Asp	Trp	Ser	Leu	Phe	Arg	Met	Phe	Ser	Arg	Thr	Leu	Thr	Glu
				260					265					270
Pro	Cys	Pro	Leu	Ala	Ser	Glu	Ser	Arg	Val	Tyr	Val	Asp	Ile	Thr
				275					280					285
Thr	Tyr	Asn	Gln	Asp	Asn	Glu	Thr	Leu	Glu	Val	His	Pro	Pro	Pro
				290					295					300
Thr	Thr	Thr	Tyr	Gln	Asp	Val	Ile	Leu	Gly	Thr	Arg	Lys	Thr	Tyr
				305					310					315
Ala	Ile	Tyr	Asp	Leu	Leu	Asp	Thr	Ala	Met	Ile	Asn	Asn	Ser	Arg
				320					325					330
Asn	Leu	Asn	Ile	Gln	Leu	Lys	Trp	Lys	Arg	Pro	Pro	Glu	Asn	Glu
				335					340					345
Ala	Pro	Pro	Val	Pro	Phe	Leu	His	Ala	Gln	Arg	Tyr	Val	Ser	Gly





In the United States		In the rest of the world	
Year	Rate	Year	Rate
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1996	1.0	1996	0.8
1997	1.0	1997	0.8
1998	1.0	1998	0.8
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2001	1.0	2001	0.8
2002	1.0	2002	0.8
2003	1.0	2003	0.8
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2006	1.0	2006	0.8
2007	1.0	2007	0.8
2008	1.0	2008	0.8
2009	1.0	2009	0.8
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2011	1.0	2011	0.8
2012	1.0	2012	0.8
2013	1.0	2013	0.8
2014	1.0	2014	0.8
2015	1.0	2015	0.8
2016	1.0	2016	0.8
2017	1.0	2017	0.8
2018	1.0	2018	0.8
2019	1.0	2019	0.8
2020	1.0	2020	0.8
2021	1.0	2021	0.8
2022	1.0	2022	0.8
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2026	1.0	2026	0.8
2027	1.0	2027	0.8
2028	1.0	2028	0.8
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2031	1.0	2031	0.8
2032	1.0	2032	0.8
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PF-0489-1 CON

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Ile	Ile	Gly	Leu	Trp	Trp	Cys	Thr	Lys	Ser	Ile	Leu	Lys	Tyr	Ile
				20					25					30
Cys	Lys	Lys	Gln	Lys	Arg	Thr	Cys	Tyr	Leu	Gly	Ser	Lys	Thr	Leu
				35					40					45
Phe	Tyr	Arg	Leu	Glu	Ile	Leu	Glu	Gly	Ile	Thr	Ile	Val	Gly	Met
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PF-0489-1 CON

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<210> 31  
<211> 1175  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2741580

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<221> unsure  
<222> 959  
<223> a, t, c, g, or other

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<211> 2358  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2779610

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taatctacac ttttatttct tggatcactg gcgttatcct tcttgagtt ggcatgtgg 240
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<212> DNA
<213> Homo sapiens

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<220>
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